

Serial No. 09/921,170
Reply to Office Action of October 20, 2003

Amendments to the Specification:

Please replace paragraph [0034] with the following:

E¹ [0034] The substantially cylindrical heel section 316a of the piston seal 316 is generally annular about central axis 221, and is generally rectangular in cross-section as shown in the drawings. Lip Substantially cylindrical lip section 316b is also generally annular about central axis 221. However, lip section 316b has an annular projection or bulge 310, with a maximum diameter larger than the diameter of the internal cylinder wall 210a.

Please replace paragraph [0047] with the following:

E² [0047] Although the above has been described in terms of a simplex piston head, the disclosed technique can be used with a duplex piston head having two piston seals 316 and 326 on both sides of the duplex piston head. In a duplex piston head embodiment shown in Figure 6, the flange 214a is embedded between the two piston seals 316 and 326, with an substantially cylindrical annular middle section 316c connecting the two piston seals 316 and 326 made of the resilient material of substantially cylindrical heel sections 316b and 326b 316a and 326a, corresponding to the heel section 316a of the simplex embodiments described above and covering the outer surface of the flange 214a. Substantially cylindrical lip sections 316b and 326b are formed of the resilient material described above for the simplex piston head embodiments. As with the simplex piston head assemblies of Figures 3-5, the duplex piston head as shown in Figure 6 is retained on the piston rod 211 by means of a retainer nut 225. Other duplex piston rod and piston head configurations and attachment methods can be used, such as a the use of an internally tapered bore of the piston hub 214 which mates with an externally tapered piston rod 211.